RAW SEQUENCE LISTING

EFS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	08/434.105A
Source:	/FW/b.
Date Processed by STIC:	3/14/07
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RAW SEQUENCE LISTING DATE: 03/14/2007
PATENT APPLICATION: US/08/434,105A TIME: 14:54:04

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      5 <120> TITLE OF INVENTION: SYNTHETIC PLANT GENES AND METHOD FOR PREPARATION
      7 <130> FILE REFERENCE: 28079/41786
      9 <140> CURRENT APPLICATION NUMBER: US 08/434,105A
     10 <141> CURRENT FILING DATE: 1995-05-03
     12 <150> PRIOR APPLICATION NUMBER: US 07/959,506
     13 <151> PRIOR FILING DATE: 1992-10-09
     15 <150> PRIOR APPLICATION NUMBER: US 07/476,661
     16 <151> PRIOR FILING DATE: 1990-02-12
     18 <150> PRIOR APPLICATION NUMBER: US 07/315,355
     19 <151> PRIOR FILING DATE: 1989-02-24
     21 <160> NUMBER OF SEQ ID NOS: 40
     23 <170> SOFTWARE: PatentIn version 3.3
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     27 <212> TYPE: DNA
     28 <213> ORGANISM: Artificial sequence
     30 <220> FEATURE:
     31 <223> OTHER INFORMATION: Synthetic nucleotide sequence encoding Btk HD-1 insecticidal
protein
     32
              (cry1Ab), described in Example 1, and set forth in the lower line of
     33
              Figure 2
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                                                                              180
     42 agaatcgaag agttcgctag gaatcaagcc atttctagat tagaaggact aagcaatctt
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                                                                              360
     48 ctttttgcag ttcaaaatta tcaagttcct ctcctctccg tgtacgttca agctgccaac
                                                                              420
     50 ctccacctct cagttttgag agatgtttca gtgtttggac aaaggtgggg atttgatgcc
                                                                              480
     52 gcgactatca atagtcgtta taatgattta actaggctta ttggcaacta tacagatcat
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     54 gctgtacgct ggtacaatac gggattagag cgtgtatggg gaccggattc tagagattgg
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     56 atcaggtaca accagttcag aagagagctt acactaactg tattagatat cgtttctcta
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     66 gggttttcgg ggccagaatt cacttttccg ctatatggaa ctatgggaaa tgcagctcca
                                                                              960
     68 caacaacgta ttgttgctca actaggtcag ggcgtgtata gaacattatc gtccacctta
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     70 tatagaagac ettttaacat egggateaac aaccaacac tatetgttet tgaegggaca
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     72 gaatttgett atggaacete etcaaatttg ceateegetg tatacagaaa aageggaacg
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     74 gtagattege tggatgaaat acegecacag aataacaacg tgccacetag gcaaggattt
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76 agtcatcgat taagccatgt ttcaatgttt cgttcaggct ttagtaatag tagtgtaagt 1260

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                                                                        1380
82 tctgtcgtta aaggaccagg atttacagga ggagatattc ttcgaagaac ttcacctggc
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84 cagatttcaa ccttaagagt aaatattact gcaccattat cacaaagata tcgggtaaga
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86 attegetacg cttctaccac aaacettcag ttccacacat caattqacqq aaqacetatt
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88 aatcagggga atttttcagc aactatgagt agtgggagta atttacagtc cggaagcttt
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90 aggactgtag gttttactac tccgtttaac ttttcaaatg gatcaagtgt atttacgtta
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94 qca
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98 <211> LENGTH: 1743
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Native Btk HD-1 nucleotide sequence encoding Btk HD-1 toxin
104
          protein (Cry1Ab) from amino acid 29-607 as described in Example 1
105
          & set forth in the upper line of Figure 2, & includes synthetic
106
          sequence encoding N-terminal Met-Ala
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                                                                          120
113 atttttggtc cctctcaatg ggacgcattt cttgtacaaa ttgaacagtt aattaaccaa
                                                                          180
115 agaatagaag aattegetag gaaccaagee atttetagat tagaaggaet aagcaatett
                                                                          240
117 tatcaaattt acgcagaatc ttttagagag tgggaagcag atcctactaa tccagcatta
                                                                          300
119 agagaagaga tgcgtattca attcaatgac atgaacagtg cccttacaac cgctattcct
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121 ctttttgcag ttcaaaatta tcaagttcct cttttatcag tatatgttca agctgcaaat
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123 ttacatttat cagttttgag agatgtttca gtgtttggac aaaggtgggg atttgatgcc
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125 gegaetatea atagtegtta taatgattta aetaggetta ttggeaacta tacagateat
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127 gctgtacgct ggtacaatac gggattagag cgtgtatggg gaccggattc tagagattgg
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129 ataagatata atcaatttag aagagaatta acactaactg tattagatat cgtttctcta
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131 tttccgaact atgatagtag aacgtatcca attcgaacag tttcccaatt aacaagagaa
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133 atttatacaa acccagtatt agaaaatttt gatggtagtt ttcgaggctc ggctcagggc
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135 atagaaggaa gtattaggag tocacatttg atggatatac ttaatagtat aaccatctat
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137 acggatgctc atagaggaga atattattgg tcagggcatc aaataatggc ttctcctgta
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139 gggttttcgg ggccagaatt cacttttccg ctatatggaa ctatgggaaa tgcagctcca
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141 caacaacgta ttgttgctca actaggtcag ggcgtgtata gaacattatc gtccacctta
                                                                         1020
143 tatagaagac cttttaatat agggataaat aatcaacaac tatctqttct tgacgggaca
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147 gtagattege tggatgaaat accgccacag aataacaacg tgccacctag gcaaggattt
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                                                                         1380
155 totgtogtta aaggaccagg atttacagga ggagatatto ttogaagaac ttoacctggo
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161 aatcagggga atttttcagc aactatgagt agtgggagta atttacagtc cggaagcttt
                                                                         1620
163 aggactgtag gttttactac tccgtttaac ttttcaaatq qatcaaqtqt atttacgtta
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165 agtgctcatg tcttcaattc aggcaatgaa gtttatatag atcgaattga atttgttccg
                                                                         1740
167 qca
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254 <400> SEQUENCE: 4

the upper line of Figure 3

RAW SEQUENCE LISTING DATE: 03/14/2007 PATENT APPLICATION: US/08/434,105A TIME: 14:54:04

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267 cctactaatc cagcattaag agaagagatg cgtattcaat tcaatgacat gaacagtgcc
                                                                          420
269 cttacaaccg ctattcctct ttttgcagtt caaaattatc aagttcctct tttatcagta
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273 aggtggggat ttgatgccgc gactatcaat agtcgttata atgatttaac taggcttatt
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275 ggcaactata cagatcatgc tgtacgctgg tacaatacgg gattagagcg tgtatgggga
                                                                          660
277 ccggattcta gagattggat aagatataat caatttagaa gagaattaac actaactgta
                                                                          720
279 ttagatatcg tttctctatt tccgaactat gatagtagaa cgtatccaat tcgaacagtt
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283 cgaggetegg eteagggeat agaaggaagt attaggagte cacatttgat ggatataett
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293 totgttottg acgggacaga atttgcttat ggaacctcct caaatttgcc atccgctgta
                                                                         1200
295 tacagaaaaa gcggaacggt agattcgctg gatgaaatac cgccacagaa taacaacgtg
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301 gaatttaata atataattcc ttcatcacaa attacacaaa tacctttaac aaaatctact
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311 ttacagtccg gaagctttaq qactqtaqqt tttactactc cqtttaactt ttcaaatqqa
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313 tcaagtgtat ttacgttaag tgctcatgtc ttcaattcag qcaatqaagt ttatatagat
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321 <213> ORGANISM: Artificial sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Synthetic hybrid of first 1360 bases synthetic HD-1 linked
325
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326
          54, and as set forth in the lower line of Figure 4
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    351 cctgattcta gagattggat tagatacaac cagttcagga gagaattgac cctcacagtt
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    353 ttggacattg tgtctctctt cccgaactat gactccagaa cctaccctat ccgtacagtg
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    355 tcccaactta ccaqaqaaat ctatactaac ccagttcttg agaacttcqa cgqtaqcttc
                                                                              840
    357 cgtggttctg cccaaggtat cgaaggctcc atcaggagcc cacacttgat ggacatcttg
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    359 aacagcataa ctatctacac cgatgctcac agaggagagt attactggtc tggacaccag
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(CrylAb)
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    404
              and as set forth in the upper line of Figure 4
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    431 ttagatatcg tttctctatt tccgaactat gatagtagaa cgtatccaat tcgaacagtt
                                                                              780
    433 tcccaattaa caagagaaat ttatacaaac ccaqtattaq aaaattttga tggtagtttt
                                                                              840
                                                                              900
    435 cgaggctcgg ctcagggcat agaaggaagt attaggagtc cacatttgat ggatatactt
    437 aatagtataa ccatctatac ggatgctcat agaggagaat attattggtc agggcatcaa
                                                                              960
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/08/434,105A

DATE: 03/14/2007 TIME: 14:54:05

Input Set : N:\efs\03_14_07

\08434105A_efs\971950_41785correctedsequencelisting.txt

Output Set: N:\CRF4\03142007\H434105A.raw

L:755 M:283 W: Missing Blank Line separator, <220> field identifier L:1913 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23